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APPLICATION NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,467 06/23/2003	Venkat Selvamanickam	SPP 18.806	2664
26304 7590 07/19/2005		EXAM	INER
KATTEN MUCHIN ROSENMAN LLP		TALBOT, BRIAN K	
575 MADISON AVENUE		ART UNIT	
NEW YORK, NY 10022-2585		ARTUNII	PAPER NUMBER
		1762	

DATE MAILED: 07/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/602,467	SELVAMANICKAM ET AL.	
Office Action Summary	Examiner	Art Unit	
•	Brian K. Talbot	1762	
The MAILING DATE of this communicatio	n appears on the cover sheet with	the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days. If NO period for reply is specified above, the maximum statutory is period for reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a reply on. a reply within the statutory minimum of thirty (3) period will apply and will expire SIX (6) MONTHS statute, cause the application to become ABANI	be timely filed 0) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	04 May 2005.		
2a)☐ This action is FINAL . 2b)☒ This action is non-final.			
3) Since this application is in condition for al	lowance except for formal matters	s, prosecution as to the merits is	
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D. 1	1, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-9</u> is/are pending in the applica	tion		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.	ndrawn nom consideration.		
·	•		
6) Claim(s) <u>1-9</u> is/are rejected.			
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction a		•	
8) Claim(s) are subject to restriction a	and/or election requirement.		
Application Papers			
9) The specification is objected to by the Exa	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b) objected to by	the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the o	orrection is required if the drawing(s)	is objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the		• • • • • • • • • • • • • • • • • • • •	
Priority under 35 U.S.C. § 119			
<u> </u>		10() (1) (0	
12) Acknowledgment is made of a claim for fo	reign phority under 35 U.S.C. § 11	19(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	and the same to the same and the same		
1. Certified copies of the priority documents			
2. Certified copies of the priority docu	• •	•	
3. Copies of the certified copies of the		ceived in this National Stage	
application from the International B	` "		
* See the attached detailed Office action for	a list of the certified copies not rec	ceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-94	8) Paper No(s)/M	lail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	B/08) 5) ☐ Notice of Inform 6) ☐ Other:	mal Patent Application (PTO-152)	
S. Patent and Trademark Office	o) [
	ice Action Summary	Part of Paper No./Mail Date 20050718	

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1. The amendment filed 5/4/05 has been considered and entered. Claims 1-9 remain in the application.

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. In light of the amendment filed 5/4/05, the 35 USC 102 and 103 rejections have been withdrawn. However, the following rejection has been necessitated by the amendment. The objection to the specification concerning the Title has been withdrawn.
- 4. In light of the approved Terminal Disclaimer filed 5/4/05, the Double Patenting rejection has been withdrawn.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

6. Claims 1 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iijima et al. (5,650,378) or Iijima et al. (6,214,772) in combination with Savvides et al. (2004/0168636).

Iijima et al. (5,650,378) teaches a method of making polycrystalline thin film and superconducting oxide body. Coating superconductive materials by sputtering while irradiating the substare base with ion beams at an oblique angle to the base. The oblique angle being 40-60 degrees (abstract). Iijima et al. (5,650,378) depicts an apparatus in Fig. 7 which details a take-up and wind-up roll (1) where upon a superconductive coating is applied to the substrate on the take-up and wind-up rolls. Figs. 3 and 8 further depict an ion beam generator (13) utilized to modify the coating applied (col. 6, line 60 – col. 8, line 55 and col. 9, line 50 – col. 10, line 30). The substarte can be a variety of materials (col. 2, lines 55-60). The ions are supplied by high frequency in which RF is included.

Iijima et al. (6,214,772) teaches a process of preparing polycrystalline thin film and apparatus therefrom. The superconductive film is applied by depositing coating material while contacting the substrate with ion beam bombardment at an angle of 50-60 degrees (abstract). Apparatus in depicted in Fig. 3, which shows a take-up roll (24) and a wind-up roll (25) to supply the substrate to the coating area for deposition. Argon is utilized to sputter the coating material from target (36) and onto the substrate (A). Ions are supplied from (39) at an angle of 50-60 degrees preferably 55 degrees. Cryo-pump (52) is utilized to maintain the proper pressure for deposition. The ions are supplied by high frequency in which RF is included.

Iijima et al. (5,650,378) or Iijima et al. (6,214,772) fail to teach a dual RF-ion.

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Savvides (2004/0168636) teaches a process and apparatus for producing crystalline thin film buffer layers and structures having biaxial texture. Looking at Fig. 6, a tape (72) travels from a supply roll to a take-up roll while sputtering sources (70) are supplying the superconductive material onto the tape. Ion guns (71) are supplied to assist the deposition. The sources (70) can also be formed by laser ablation [0060]-[0063]. The arrangement is housed in a vacuum chamber (43) as depicted in Fig. 3 (see also [0017] – [0020] and [0031]-[0036]). Jc – critical current can be in the range of 5x10⁵ A/cm² and higher (example 10) and thickness fo 100-500 nm.

Therefore it would have been obvious for one skilled in the art at the time the invention was made to have modified Iijima et al. (5,650,378) or Iijima et al. (6,214,772) process by incorporating a dual RF-ion as evidenced by Savvides (2004/0168636) to obtain the desired advantages associated therewith.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iijima et al. (5,650,378) or Iijima et al. (6,214,772) in combination with Savvides (2004/0168636) further in combination with Fritzemeier et al. (6,797,313).

Iijima et al. (5,650,378) or Iijima et al. (6,214,772) in combination with Savvides (2004/0168636) fail to teach the take-up and wind-up rolls being outside the coating chamber.

Fritzemeier et al. (6,797,313) depicts a superconducting coating applied to a tape substrate whereby take-up roll (130) and wind-up roll (140) are located outside the coating chamber.

Therefore, it would have been obvious for one skilled in the art at the time the invention was made to have modified Iijima et al. (5,650,378) or Iijima et al. (6,214,772) in combination

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with Savvides (2004/0168636) process by locating the take-up and wind-up rolls outside the deposition chamber as evidenced by Fritzemeier et al. (6,797,313) with the expectation of achieving similar results.

Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iijima et al. (5,650,378) or lijima et al. (6,214,772) lijima et al. (5,650,378) in combination with Savvides (2004/0168636) fail to teach a Kapton substrate and coating more than one substrate simultaneously.

While the Examiner acknowledges this fact, it is the Examiner's position that the type of substrate would be a matter of design choice and would be dependent upon the desired final product. In addition, the references teach a wide variety of substrates and hence, one skilled in the art would have had a reasonable expectation of achieving similar success regardless of the type of substrate utilized. With respect to coating more than one substrate simultaneously, it has been well settled that the mere duplication of parts has been held to be obvious In Re Harza 124 USPQ 378.

Response to Amendment

7. Applicant arguments concerning the prior art failing to teach a dual RF-ion source has been met by the citation Savvides (2004/0168636).

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian K Talbot
Primary Examiner

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BKT -